	Application No.	Applicant(s)	
Notice of Allowability	09/889,489	KOIKE, SHINJI	
	Examiner	Art Unit	
	Dana Ross	3722	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. THIS
1. $igspace$ This communication is responsive to <u>Amendment filed Mar</u>	<u>ch 4,2004</u> .		
2. The allowed claim(s) is/are 1-3 and 5-12.			
3. $igotimes$ The drawings filed on <u>17 July 2001</u> are accepted by the Ex	aminer.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" 	been received. been received in Application No cuments have been received in this in	national stage applica	
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	itted. Note the attached EXAMINER	S AMENDMENT or N	NOTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to provide the deport of	st be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL r	948) attached Office action of the grant (not the grant). The property of the grant (not the grant).	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te nent/Comment	

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Allowable Subject Matter

1. Claims 1-3 and 5-12 are allowed.

2. The following is an examiner's statement of reasons for allowance: The reasons for allowance of independent claim 8 is discussed in detail in the previous office action. Independent claims 1 and 7 incorporate allowable subject matter from the previous office action.

Independent claims 11 and 12 are allowable since there is no prior art that anticipates or renders obvious a numerically controlled machine tool for machining a work piece mounted on a work piece support unit by moving a spindle having a tool mounted thereon in directions along an X-axis, Y-axis and Z-axis with respect to the work piece as claimed in claims 11 and 12, specifically wherein the X-axis slider of the spindle support structure is driven in the direction along the X-axis by linear motors disposed along the guides on the upper and lower portions of the base, respectively, and each of the linear motors includes a stator and a mover arranged on the base and the X-axis slider in opposed relation to each other so that an attraction force of the stator acting on the mover reduces the load in gravitational direction exerted on the guide of the X-axis slider.

The closest prior art of record found is U.S. Pat. No. 5,662,568 (Lindem) as is discussed in detail in the previous office action. Lindem teaches a numerically controlled machine tool in which the X-axis slider is driven by upper and lower linear motors with the stator and mover arranged in opposed relation to each other. Lindem does not teach the machine tool with each of the linear motors including a stator and a mover arranged on the base and the X-axis slider in opposed relation to each other so that an attraction force of the stator acting on the mover reduces the load in gravitational direction exerted on the guide of the X-axis slider.

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Therefore Lindem does not anticipate the claimed inventions of claims 11 or 12.

There is no prior art that would render obvious the claimed invention of claims 11 or 12, either alone or in combination with Lindem.

Furthermore, there is no motivation found to modify Lindem such that each of the linear motors includes a stator and a mover arranged on the base and the X-axis slider in opposed relation to each other so that an attraction force of the stator acting on the mover reduces the load in gravitational direction exerted on the guide of the X-axis slider.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Ross whose telephone number is (703) 305-7764. The examiner can normally be reached on Mon-Fri 7:00am - 3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington can be reached on (703) 308-2159. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dmr

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700